09/824,746

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	1954	703/168 OR 713/176 OR 705/75 OR (382/276-308)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/03/31 14:26
L2	53	1 AND ROTAT$3 AND EXTRACT$3 AND IMAGE AND MATRI$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/03/31 14:27
L3	57881	MURAKAMI.INV.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/03/31 14:30
L4	58226	(TOMOCHIKA MURAKAMI).INV.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/03/31 14:32
L5	53483	(KEIICHI IWAMURA).INV.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/03/31 14:31
L6	740	4 AND 5	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/03/31 14:31
L7	0	"TOMOCHIKA MURAKAMI".INV.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/03/31 14:32
L8	0	("TOMOCHIKA MURAKAMI").INV.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/03/31 14:41

L9	41	MURAKAMI-TOMOCHIKA.INV.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/03/31 14:42
L10	340	IWAMURA-KEIICHI.INV.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/03/31 14:43
L11	641	ISHIDA-YOSHIHIRO.INV.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/03/31 14:43
L12	6	9 AND 10 AND 11	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/03/31 14:43

09/824,746

Zand, Kambiz

From: PLUS
Sent: Tuesday, March 22, 2005 1:38 PM
To: Zand, Kambiz
Subject: PLUS Results for 09824746

Here are the PLUS search results for 09824746.

This search was prepared by the staff of the Scientific and Technical Information Center, SIRA. If you have questions or comments about this search, please reply via email to PLUS@uspto.gov.


09824746_QUAL.txt


09824746_LIST.txt


09824746_WEST.txt


09824746_EAST.txt


09824746.east


09824746_CLS.txt


09824746_CLSTITLES.txt


09824746_WDS.txt

46
PLUS Search Results for S/N 09824746, Searched March 22, 2005

The Patent Linguistics Utility System (PLUS) is a USPTO automated search system for U.S. Patents from 1971 to the present. PLUS is a query-by-example search system which produces a list of patents that are most closely related linguistically to the application searched. This search was prepared by the staff of the Scientific and Technical Information Center, SIRA.

6111990
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09824746_CLS
Most Frequently Occurring Classifications of Patents Returned From A Search of 09824746 on March 22, 2005

Original Classifications

8	380/54
6	382/100
6	713/176
5	382/232
2	358/3.28
2	382/115
2	382/135
2	382/250
2	382/284

Cross-Reference Classifications

12	713/176
11	283/113
9	380/54
7	283/73
7	380/55
7	382/232
6	283/17
5	235/494
5	380/200
4	380/202
4	382/100
3	705/57
2	283/62
2	348/460
2	348/473
2	358/1.9
2	358/3.19
2	358/536
2	380/201
2	380/206
2	380/207
2	380/237
2	380/238
2	380/243
2	382/115
2	382/181
2	382/237
2	382/276
2	382/279
2	428/42.2
2	705/58
2	713/179

Combined Classifications

18	713/176
17	380/54
12	382/232
11	283/113
10	382/100
7	283/73
7	380/55
6	283/17
5	235/494
5	380/200
4	380/202
4	382/115
3	382/284
3	705/57
3	713/179
2	283/62
2	348/460
2	348/473
2	358/1.9
2	358/3.19
2	358/3.28
2	358/536
2	380/201
2	380/206
2	380/207
2	380/237
2	380/238
2	380/243
2	382/135
2	382/181
2	382/237
2	382/250
2	382/251
2	382/276
2	382/279
2	428/42.1
2	428/42.2
2	705/58

09824746_CLSTITLES

Titles of Most Frequently Occurring Classifications of Patents Returned

From A Search of 09824746 on March 22, 2005

18 713/176 (6 OR, 12 XR)
Class 713 : ELECTRICAL COMPUTERS AND DIGITAL PROCESSING SYSTEMS: SUPPORT
713/150 MULTIPLE COMPUTER COMMUNICATION USING CRYPTOGRAPHY
713/168 .Particular communication authentication technique
713/176 ..Authentication by digital signature representation or digital watermark

17 380/54 (8 OR, 9 XR)
Class 380 : CRYPTOGRAPHY
380/54 BY MODIFYING OPTICAL IMAGE (E.G., TRANSMISSIVE OVERLAY)

12 382/232 (5 OR, 7 XR)
Class 382 : IMAGE ANALYSIS
382/232 IMAGE COMPRESSION OR CODING

11 283/113 (0 OR, 11 XR)
Class 283 : PRINTED MATTER
283/72 HAVING REVEALABLE CONCEALED INFORMATION, FRAUD PREVENTER OR DETECTOR, USE PREVENTER OR DETECTOR, OR IDENTIFIER
283/113 .Having watermark

10 382/100 (6 OR, 4 XR)
Class 382 : IMAGE ANALYSIS
382/100 APPLICATIONS

7 283/73 (0 OR, 7 XR)
Class 283 : PRINTED MATTER
283/72 HAVING REVEALABLE CONCEALED INFORMATION, FRAUD PREVENTER OR DETECTOR, USE PREVENTER OR DETECTOR, OR IDENTIFIER
283/73 .Cryptogram (e.g., verification, tabular index)

7 380/55 (0 OR, 7 XR)
Class 380 : CRYPTOGRAPHY

380/55 HAVING PRODUCTION OF PRINTED COPY (E.G., CRYPTOGRAPHIC PRINTER OR TYPEWRITER)

6 283/17 (0 OR, 6 XR)
Class 283 : PRINTED MATTER
283/17 CRYPTOGRAPHIC RECORD TEMPLATE

5 235/494 (0 OR, 5 XR)
Class 235 : REGISTERS
235/487 RECORDS
235/494 .Particular code pattern

5 380/200 (0 OR, 5 XR)
Class 380 : CRYPTOGRAPHY
380/200 VIDEO CRYPTOGRAPHY

4 380/202 (0 OR, 4 XR)
Class 380 : CRYPTOGRAPHY
380/200 VIDEO CRYPTOGRAPHY
380/201 .Copy protection or prevention
380/202 ..Having origin or program ID

4 382/115 (2 OR, 2 XR)
Class 382 : IMAGE ANALYSIS
382/100 APPLICATIONS
382/115 .Personnel identification (e.g., biometrics)

3 382/284 (2 OR, 1 XR)
Class 382 : IMAGE ANALYSIS
382/276 IMAGE TRANSFORMATION OR PREPROCESSING
382/284 .Combining image portions (e.g., portions of oversized documents)

3 705/57 (0 OR, 3 XR)
Class 705 : DATA PROCESSING: FINANCIAL, BUSINESS PRACTICE, MANAGEMENT, OR COST/PRICE DETERMINATION
705/50 BUSINESS PROCESSING USING CRYPTOGRAPHY
705/51 .Usage protection of distributed data files
705/57 ..Copy protection or prevention

3 713/179 (1 OR, 2 XR)
Class 713 : ELECTRICAL COMPUTERS AND DIGITAL PROCESSING SYSTEMS: SUPPORT
713/150 MULTIPLE COMPUTER COMMUNICATION USING CRYPTOGRAPHY
713/168 .Particular communication authentication technique

713/176 ..Authentication by digital signature representation or digital watermark
713/179 ...Including generation of associated coded record

2 283/62 (0 OR, 2 XR)
Class 283 : PRINTED MATTER
283/62 STRIPS

2 348/460 (0 OR, 2 XR)
Class 348 : TELEVISION
348/460 DIVERSE DEVICE CONTROLLED BY INFORMATION EMBEDDED IN VIDEO SIGNAL

2 348/473 (0 OR, 2 XR)
Class 348 : TELEVISION
348/469 FORMAT
348/473 .Including additional information

2 358/1.9 (0 OR, 2 XR)
Class 358 : FACSIMILE AND STATIC PRESENTATION PROCESSING

358/1.1 STATIC PRESENTATION PROCESSING (E.G., PROCESSING DATA FOR PRINTER, ETC.)
358/1.9 .Attribute control

2 358/3.19 (0 OR, 2 XR)
Class 358 : FACSIMILE AND STATIC PRESENTATION PROCESSING

358/1.1 STATIC PRESENTATION PROCESSING (E.G., PROCESSING DATA FOR PRINTER, ETC.)
358/1.9 .Attribute control
358/3.01 ..Multi-level image reproduction (e.g., gray level reproduction)
358/3.06 ...Halftoning (e.g., a pattern of print elements used to represent a gray level)
358/3.13 ....Dithering (e.g., spatial distribution of print elements by threshold matrix)
358/3.19 .....Stochastic or random dithering

2 358/3.28 (2 OR, 0 XR)
Class 358 : FACSIMILE AND STATIC PRESENTATION PROCESSING

358/1.1 STATIC PRESENTATION PROCESSING (E.G., PROCESSING DATA FOR PRINTER, ETC.)
358/1.9 .Attribute control
358/3.28 ..Embedding a hidden or unobtrusive code or pattern in a reproduced image (e.g., a wate

rmark)

2 358/536 (0 OR, 2 XR)
Class 358 : FACSIMILE AND STATIC PRESENTATION PROCESSING

358/500 NATURAL COLOR FACSIMILE
358/530 .Specific image-processing circuitry
358/534 ..Halftone processing
358/536 ...Halftone screening

2 380/201 (0 OR, 2 XR)
Class 380 : CRYPTOGRAPHY
380/200 VIDEO CRYPTOGRAPHY
380/201 .Copy protection or prevention

2 380/206 (0 OR, 2 XR)
Class 380 : CRYPTOGRAPHY
380/200 VIDEO CRYPTOGRAPHY
380/205 .Video electric signal masking
380/206 ..Masking of synchronization signal

2 380/207 (0 OR, 2 XR)
Class 380 : CRYPTOGRAPHY
380/200 VIDEO CRYPTOGRAPHY
380/205 .Video electric signal masking
380/207 ..Including locally generated masking signal

2 380/237 (0 OR, 2 XR)
Class 380 : CRYPTOGRAPHY
380/200 VIDEO CRYPTOGRAPHY
380/210 .Video electric signal modification (e.g., scrambling)
380/236 ..Modifying accompanying audio signal
380/237 ...Including digital audio

2 380/238 (0 OR, 2 XR)
Class 380 : CRYPTOGRAPHY
380/200 VIDEO CRYPTOGRAPHY
380/210 .Video electric signal modification (e.g., scrambling)
380/236 ..Modifying accompanying audio signal
380/238 ...Including frequency modification of audio signal or frequency shifting of audio carri
er

2 380/243 (0 OR, 2 XR)
Class 380 : CRYPTOGRAPHY
380/243 FACSIMILE CRYPTOGRAPHY

2 382/135 (2 OR, 0 XR)
Class 382 : IMAGE ANALYSIS
382/100 APPLICATIONS
382/135 .Reading paper currency

2 382/181 (0 OR, 2 XR)
Class 382 : IMAGE ANALYSIS
382/181 PATTERN RECOGNITION

2 382/237 (0 OR, 2 XR)
Class 382 : IMAGE ANALYSIS
382/232 IMAGE COMPRESSION OR CODING
382/237 .Gray level to binary coding

2 382/250 (2 OR, 0 XR)
Class 382 : IMAGE ANALYSIS
382/232 IMAGE COMPRESSION OR CODING
382/248 .Transform coding
382/250 ..Discrete cosine or sine transform

2 382/251 (1 OR, 1 XR)
Class 382 : IMAGE ANALYSIS
382/232 IMAGE COMPRESSION OR CODING
382/251 .Quantization

2 382/276 (0 OR, 2 XR)
Class 382 : IMAGE ANALYSIS
382/276 IMAGE TRANSFORMATION OR PREPROCESSING

2 382/279 (0 OR, 2 XR)
Class 382 : IMAGE ANALYSIS
382/276 IMAGE TRANSFORMATION OR PREPROCESSING
382/279 .Convolution

2 428/42.1 (1 OR, 1 XR)
Class 428 : STOCK MATERIAL OR MISCELLANEOUS ARTICLES
428/40.1 LAYER OR COMPONENT REMOVABLE TO EXPOSE ADHESIV
E

428/42.1 .Ornamental, decorative, pattern, or indicia

2 428/42.2 (0 OR, 2 XR)
Class 428 : STOCK MATERIAL OR MISCELLANEOUS ARTICLES
428/40.1 LAYER OR COMPONENT REMOVABLE TO EXPOSE ADHESIV
E

428/42.2 .Sectional layer removable

2 705/58 (0 OR, 2 XR)
Class 705 : DATA PROCESSING: FINANCIAL, BUSINESS PRACTICE, MANAGEMENT, OR COST/PRICE DETERMINATION

705/50	BUSINESS PROCESSING USING CRYPTOGRAPHY
705/51	.Usage protection of distributed data files
705/57	..Copy protection or prevention
705/58	...Having origin or program ID

Terms used **image watermark extraction**

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Results 1 - 2 of 2

Relevance scale

1 Protecting digital media content

Nasir Memon, Ping Wah Wong

July 1998 **Communications of the ACM**, Volume 41 Issue 7

Full text available: pdf(1.02 MB) Additional Information: full citation, references, citings, index terms, review

2 Robust digital watermarking: Robust DWT-SVD domain image watermarking: embedding data in all frequencies

Emir Ganic, Ahmet M. Eskicioglu

September 2004 **Proceedings of the 2004 multimedia and security workshop on Multimedia and security**

Full text available: pdf(4.84 MB) Additional Information: full citation, abstract, references, index terms

Protection of digital multimedia content has become an increasingly important issue for content owners and service providers. As watermarking is identified as a major technology to achieve copyright protection, the relevant literature includes several distinct approaches for embedding data into a multimedia element (primarily images, audio, and video). Because of its growing popularity, the Discrete Wavelet Transform (DWT) is commonly used in recent watermarking schemes. In a DWT-based scheme, t ...

Keywords: copyright protection, discrete wavelet transform, image watermarking, multimedia, singular value decomposition, visual watermark

Results 1 - 2 of 2

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e-mail

Results for "('image watermark extraction'<in>metadata)"

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» Key

IEEE JNL	IEEE Journal or Magazine
IEE JNL	IEE Journal or Magazine
IEEE CNF	IEEE Conference Proceeding
IEE CNF	IEE Conference Proceeding
IEEE STD	IEEE Standard

Modify Search

('image watermark extraction'<in>metadata)

Check to search only within this results set

Display Format: Citation Citation & Abstract

1. **Application of ICA to the digital image watermarking**
   Minfen Shen; Huang, J.; Beadle, P.J.;
   Neural Networks and Signal Processing, 2003. Proceedings of the 2003 International Conference on
   Volume 2, 14-17 Dec. 2003 Page(s):1485 - 1488 Vol.2
   AbstractPlus | Full Text: PDF(329 KB) IEEE CNF

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